

# ELECTROCHEMICAL LIGHT EMITTING CELL AND ELECTROCHEMICAL EMISSION SPECTROMETER

**Publication number:** JP9189662

**Publication date:** 1997-07-22

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**Applicant:** HITACHI LTD

**Classification:**

- **International:** G01N33/543; G01N21/76; G01N21/78; G01N27/416; G01N33/543; G01N33/543; G01N21/76; G01N21/77; G01N27/416; G01N33/543, (IPC1-7)  
G01N33/543; G01N21/76; G01N21/78; G01N27/416

- **European:**

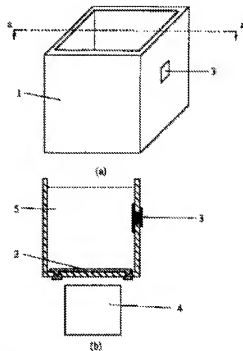
**Application number:** JP19960000731 19960108

**Priority number(s):** JP19960000731 19960108

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## Abstract of JP9189662

**PROBLEM TO BE SOLVED:** To provide an electrochemical emission cell which detects electrochemical emission with high sensitivity. **SOLUTION:** A transparent electrode 2 is formed on the bottom surface of a glass sample cell 1 to form a working electrode, a sample is arranged in contact with the working electrode, and a photo detector 4 is arranged under the bottom part of the sample cell 1. A porous thin film electrode or a mesh conductive electrode may be used instead of the transparent electrode. Thus, the emission from an emitting reagent fixed on a magnetic bead captured on the working electrode reaches the working electrode through the working electrode and the transparent base plate. Since the light scattered on the working electrode surface is extremely little, the electrochemical emission can be directly detected with good efficiency, and a highly sensitive measurement can be thus performed.



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